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ABSTRACT

This booklet is a report of the health status and service needs of America's children. It presents a summary of sentinel health measures reflecting both what has been accomplished and what challenges remain. The first section describes the general population to provide a context for health measures. In the second section, selected health status measures are presented graphically with accompanying text organized according to three age groups—infants, children, and adolescents. In the third section, measures of health services utilization are presented. (JD)

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- Participating in the campaign against AIDS,
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- plant activities;
 Providing leadership in improving health professions training;
- Tracking the supply of health professionals and monitoring their competence through operation of a nationwide data bank on malpractice claims and notions; and

nng developments affecting health facilipecially those in rural areas.









Bureau of Maternal and Child Health and Resources Development Office of Maternal and Child Health



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PREFACE

Child Health USA 1989 is a report of the health status and service needs of America's children. It presents a summary of sentinel health measures reflecting both what we have accomplished for our children and what challenges yet remain.

This report was compiled as a result of a collaborative effort between the National Center for Health Statistics and the Office of Maternal and Child Health pursuant to the implementation of Section 509. (42 U.S.C. 701) Part (a) (5) of Title V of the Social Security Act as amended. It was designed to highlight information related to child health by appropriate growth and developmental groupings in a single publication displayed in a readily accessible and readable manner. Over time it is expected that this report may change and expand not only in content but in format as well. reflecting the dynamic needs of children and a better understanding of effective means to communicate the nature of those needs. In part, it fulfills the responsibility to disseminate information to the maternal and child health community constituents, policy makers, and to ublic and private organizations.

Child Health USA 1989 is comprised of three sections. The first section describes the general population to provide a context for health measures. The second, selected health status measures are presented graphically with accompanying text organized according to three age groups—infants, children and adolescents. In the third section, measures of health services utilization are presented. The availability of comparable national data was the major criterion used to select the indicators presented in this report.

Publication of this report would not have been possible without the contributions of numerous staff members throughout the Office of Maternal and Child Health, the National Center for Health Statistics, and several other agencies. These people gave generously of their time and knowledge, providing data from their surveys and programs. A special thanks goes to a group of national experts who provided guidance and direction to this effort; their cooperation and assistance are gratefully acknowledged.

1 1

While we have tried to provide a comprehensive, accurate and current summary of key indicators of child health, the information in this report may become outdated quickly and almost certainly have significant gaps and other built-in limitations. Consequently, interpretation of the information in this monograph should be viewed as a point of departure for subsequent efforts to obtain information that facilitates the promotion of health and the prevention of disease among our children.

Explanatory Notes:

- Age breaks may vary among health indicators, depending on the source of the data. Where possible, the following age categories were used <1, 1-4, 5-9, 10-14, 15-19, 20-21 years.
- Materials printed in italics is related information not reflected in the visual
- Hispanic persons may be of any race, thus, the reader may need to refer to the specific data source for clarification

INTRODUCTION .

"For the purpose of enabling . . ."

The health and well-being of families and children is the truest measure of any great society. Indeed it is one of the most important priorities for this great nation. Children, as children, are constantly growing and developing. This basic dynamic characteristic accounts for both their increased vitality and vulnerability and requires specific health approaches in relation to the child's changing needs.

The health of America's children is far better today than at any time in the past. Many of the serious childhood illnesses, like the common infectious diseases that threatened children in the earlier part of this century, have all but disappeared. While national progress toward improved child health has been marked, analysis of trends within this country and comparisons with other developed nations indicate the we must remain steadfast. Infant mortality was the first issue studied by the Children's Bureau in 1913. Yet despite significant reductions in the infant mortality rate throughout this centu-

ry, it is still an issue that challenges us today. Improvements in infant mortality and low birth weight rates have slowed recently. In addition, it is clear that all groups have not benefited equally. There is a long-standing disparity in infant survival by blacks and whites, and the number of infants dying varies significantly among states. The causes of these variations are complex and in some cases unknown. The United States ranks 22nd among industrialized nations in infant mortality, and its position has not improved since 1980. Sharp discrepancies persist in the health status and receipt of health services based on income, ethnic background and geographic location. These vary between States, region- and localities.

The health needs of children are also not immune to ever changing social, behavioral, economic and psychosocial influences. The issues affecting the health of mothers and children are consequently broad in scope and continue to challenge our intellect and our imagination. The prevention of unintended injuries—which, after the first year of life account for more childhood deaths than any other cause—is now properly seen as an

issue for the child health community. With technological advances that can save and extend the lives of fragile newborns, the issue of the quality of those lives as those children grow and develop must concern us. And how to enable a child with chronic or disabling conditions to develop to his or her fullest potential is another compelling issue. Pediatric AIDS is the newest issue to threaten our children.

The Bureau of Maternal and Child Health and Resource Development has begun the all important and arduous task of synthesizing and disseminating data and information on the health status of America's children. The Bureau was created October 1, 1987, but its roots go back more than 75 years. Established by Federal statute in 1912, the Children's Bureau was directed to "investigate and report...upon all matters pertaining to the welfare of children and child life among all classes of our people." Among the issues the Bureau was instructed to look into were "the questions of infant mortality, the birth rate, orphanage,



desertion...accidents and diseases of children...and legislation affecting children in the several States and territories." A wealth of information and new knowledge resulted from these early inquiries encouraging States to modernize their laws and the child health community to develop and improve services for mothers and children.

Over the years, numerous efforts both by the public and private sectors have been successfully directed toward resolution of many of the maternal and child health concerns. While we can take pride in our achievements, the unfinished agenda in child health remains very great and much remains to be done. It is our collective responsibility to take up the challenge for all the children's sake with renewed commitment and direct our energies to assure healthy pregnancies and improve our children's chances for a healthy birth and a healthy life. Those who care for and cherish our nation's most precious resource—its children face both old and new challenges every day. It is our belief and hope that wisdom will be gained from reports such as this and will be translated for the purenabling the development of

prevention programs, compassionate care, and societal reforms that will enhance and protect the health of mothers and children throughout our nation.

Office of Maternal and Child Health Child Health Day October 2, 1989

POPULATION CHARACTERISTICS

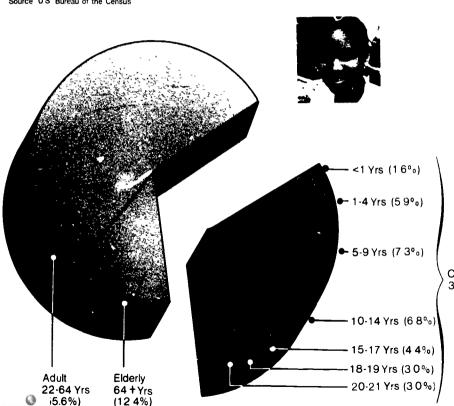


There are many socio-demographic characteristics that are used to describe the maternal and child population (i.e. race, age, poverty status). Policy makers, whether at the national, state or local level, use this information to systematically address the health problems of the mothers and children they serve and to develop programs and allocate resources that best meet their needs.

We have chosen the following population descriptors because of their importance to program development in maternal and child health: population by age, poverty, living arrangements, childcare and school dropout.

U.S. Population by Age Group 1988

Source U.S. Bureau of the Census



POPULATION OF CHILDREN

In 1988, there were 78.6 million children through the age of 21 in the United States, representing 32% of the total population.

Although there were 16 million more children under 18 years of age in 1988 than in 1950, this age group is declining proportionally relative to other age groups in the population.

There as an 11% increase in the number of children under 5 years of age between 1980 and 1988.

In 1988, persons aged 65 and over represented almost 12% of the total population. By the year 2000, their numbers are expected to increase by 21.5% whereas the child population (aged 0 through 21) is expected to decrease by 4.7% over the 1988 figures.

Children 32%

POPULATION CHARACTERISTICS

POWERTY

In 1987 there were 13 million children under 18 years of age living in poverty.

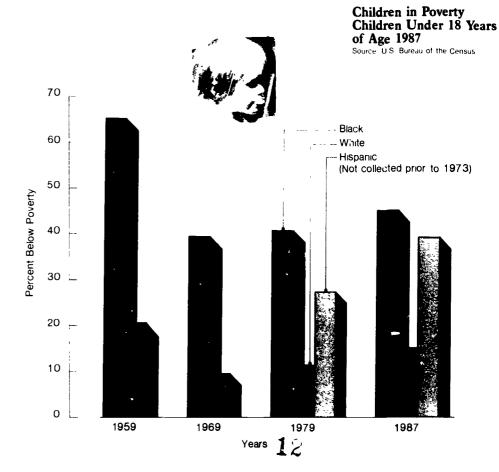
Between 1980 and 1987, the number of children living in poverty increased by 1.5 million; in contrast, the number of persons 65 years and over living in poverty declined by 3.8 million.

Black or Hispanic children are nearly 3 times more likely to live in poverty than are white children.

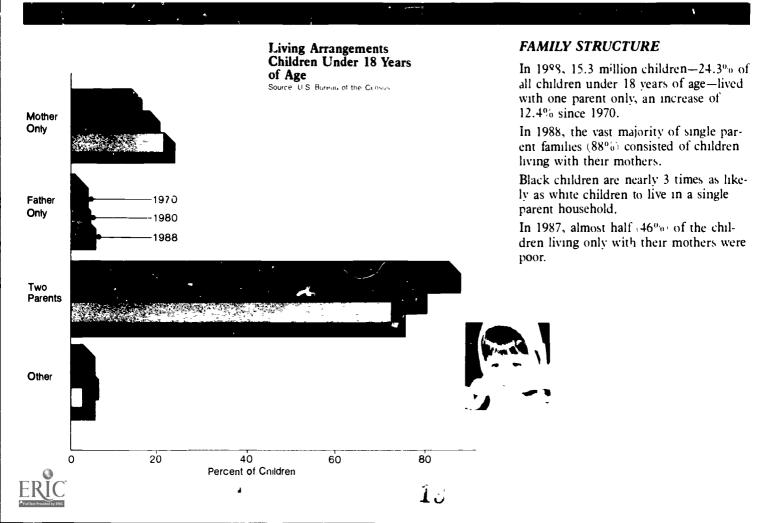
*In 1987, a family of four was considered to be living in poverty if its annual income was below \$11,611.

Note: Hispanic data not collected arior to 1473









POPULATION CHARACTERISTICS

CHILD CARE

Working Mothers

In 1985 nearly half of the mothers of preschool children (under 6 years of age) were in the labor force, an increase of 75% since 1970.

Although mothers of older children are more likely to be in the work force, between 1970 and 1985 the greatest increase in workforce participation has been by mothers of children under 6 years of age.

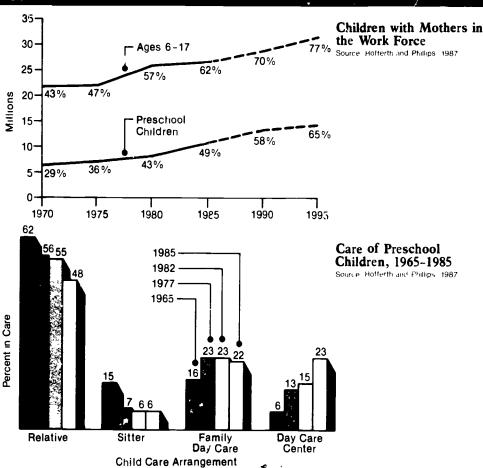
Preschool Care

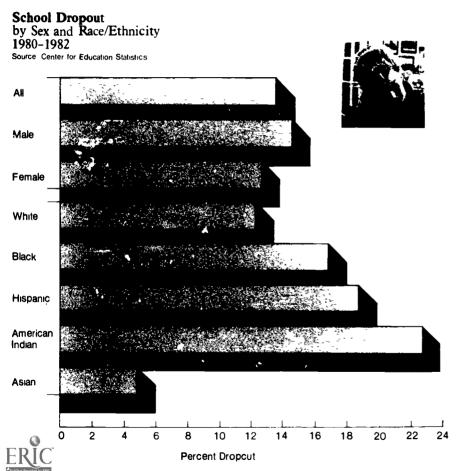
In 1985 over one fifth of children under six years of age whose mothers worked outside of the home were in day care centers.

The largest shift in child care arrangements in the last 20 years has been away from relative and sitter care toward the use of day care centers.

Women who work full time tend to use day care cer ters while women who work part time are more likely to use family day care homes.







SCHOOL DROPOUT

Nearly 14% of high school sophomores in 1980 did not finish high school in 1982.

The school dropout rate is higher for males (14.6), than for females (12.6%) and varies among racial groups.

Blacks drop out at an almost 40% higher rate than whites; Hispanics drop out at a 53% higher rate than whites.

American Indians, who have the highest dropout rate of any group are almost twice as likely to drop out as whites. Asians have the lowest dropout rate, only 4.8%.

In 1985, over 1 million 18 and 19 year olds reported themselves as not being high school graduates or currently enrolled.

Note: A dropout is defined as a high school sophomore in the spring of 1980 who was neither enrolled in high school nor a high school graduate or the + quivalent at the time of the following survey in 1982:

HEALTH STATUS



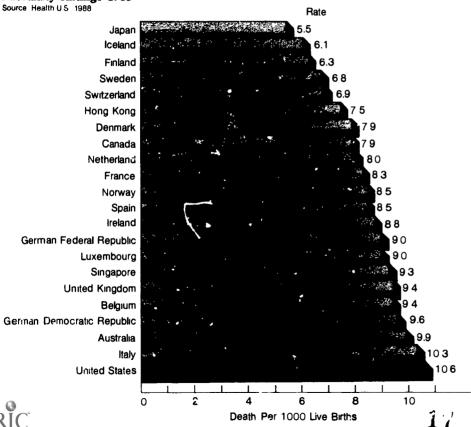
INTRODUCTION

The measurement of the health status of our children is important because it enables us to assess the impact of our past and current programs and to plan for the future. The data in this section was primarily obtained through analysis of national surveys which, though limited in sample size, are representative of the populations we serve.

The health status indicators are presented by age group infant, child, and adolescent. Although there is some overlap, the data is displayed by the agespecific importance of its contribution.

HEALTH STATUS—Infant

Cross-National Infant Mortality Ratings:1985



CROSS-NATIONAL INFANT MORTALITY

Although the United States has greatly reduced its infant mortality rate since 1965, it still ranks behind 21 other industrialized countries.

In 1950, Japan ranked 17th worst among developed countries in infant mortality, with a rate of 60.1; whereas the United States ranked 6th, with a rate of 29.2. In 1985, the rate of infant mortality in Japan (5.5) was the lowest in the world.

HEALTH STATUS—Infant

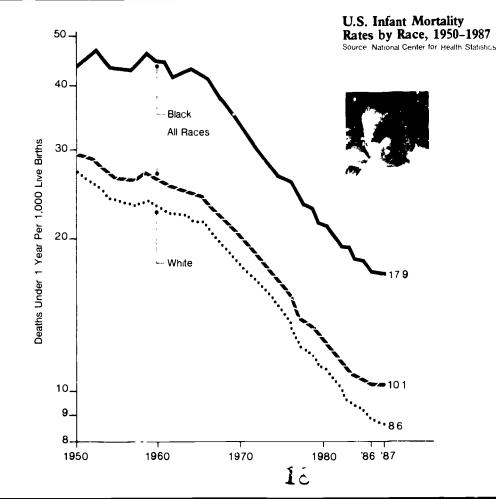
INFANT MORTALITY

In 1987, 3,809,394 babies were born in the United States, with 38,408 of them dying before their first birthday. The infant mortality rate was 10.1 deaths per 1,000 live births.

The rapid decline in the infant mortality rate during the 1960's and 1970's has slowed for both blacks and whites in the 1980's.

The infant mortality rate for black infants remains almost twice as high as that for white infants.



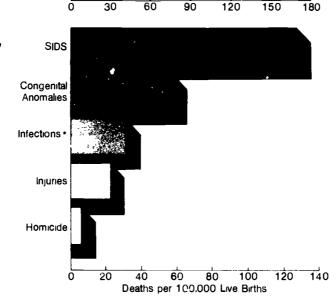




Leading Causes of Neonatal Mortality 1987 Source National Center for Health Statistics



Leading Causes of Postneonatal Mortality 1987 Source National Center for Health Statistics



NEONATAL AND POSTNEONATAL MORTALITY

Neonatal

In 1987, 24,627 infants under the age of 28 days died; the neonatal mortality rate was 647 deaths per 100,000 live births.

Postneonatal

In 1987, 13,781 infants ages 28 days up to one year died; the postneonatal mortality rate was 362 per 100,000 live births.

Of the five leading causes of postneonatal death, infections, injuries, and homicides may be prevented with appropriate intervention.

Between 1960 and 1986, the postneonatal mortality rate decreased faster for black infants than for white infants.

Note The sit para entitled afriction includes preceding a witten zar eptic mass manipulate transition viril diseases.



HEALTH STATUS—Infant

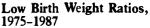
LOW BIRTH WEIGHT

In 1987, 6.9% of all live births (262,344 babies) were low birth weight, that is, they weighed less than 2,500 grams or 5½ pounds at birth.

The percent of low birth weight births has not decreased since 1980.

Low birth weight is the factor most closely associated with neonatal mortality. Low birth weight infants are more likely to experience long term disabilities or to die during the first year of life.

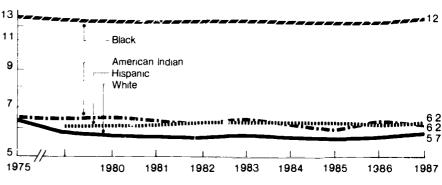
Social factors associated with increased risk of low birth weight include: poverty, low level of educational attainment, unmarried status and minority status.



Source National Center for Health Statistics



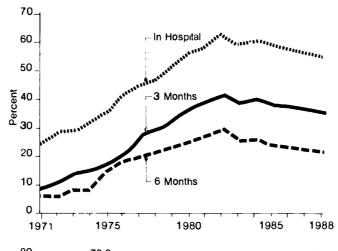
Percent of Live Birtiis Below 2.500 Grams





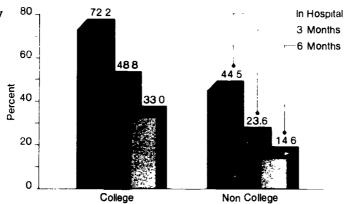
Percent Breastfeeding: 1971-1988 All Races

Source Ross Laboratories



Percent Breastfeeding by Education 1988

Source Ross Laboratories



ERIC

INFANT FEEDING

Trend

From 1971 to 1982, the percent of mothers who initially breastfed increased steadily to a high of 62%. Since then there has been a slight but continuous decline to 54% in 1988.

Although proportionally fewer women are breast feeding at 3 and 6 months, the overall trend parallels that of women breastfeeding in-hospital.

Education

Higher educated women are more likely to breastfeed.

Breastfeeding both in-hospital and after 6 months is considerably higher for women who have attended college.

Breastfeeding rates continue to be highest among women who are older, better-educated, relatively affluent, and/or who live in the western United States. Conversely, women least likely to breastfeed are those who are low-v ome, black, under 20 years of age, and/or who live in the southeastern United States.

Note: Data obtained through questionnaire mailed to mothers six months after delivery concerning their infant feeding practices. In 1988, this sample represented 82 of all new mothers in the United States.

HEALTH STATUS—Infant

PEDIATRIC AIDS

As of April 1989, 1561 cases of AIDS in children younger than 13 years of age had been reported in the U.S. These children represent approximately 1.7% of all reported AIDS cases.

The majority of pediatric AIDS cases result from transmission by HIV risk mothers, with a disproportionate number of cases occurring in Black and Hispanic children.

The number of cases of AIDS, as reported by the Centers for Disease Control (CDC), does not include children who are infected with HIV who are either asymptomatic or in the early stage of disease.

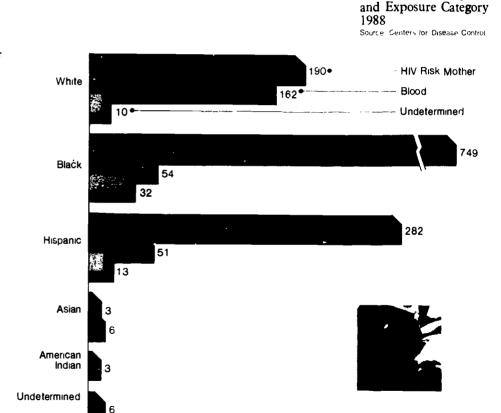
Notes

HIV Risk Mother Mother with/at risk for AIDS HIV infection-

- IV drug use
- . Sex with IV drug user
- . Sex with bisevual male
- · Sex with person with hemophilia
- . Born in Pattern II country
- · Sex with transfusion recipient with HIV infection
- . Sex with person with HIV infection, risk not specified
- Receipt of transfusion of blood blood components or tissue
- · Has FIV infection risk not specified

Blood

- Hemophilia coagulation disorder
- · Receipt of transfusion blood blood components or tissue



Number of Case

Pediatric AIDS by Race



CONGENITAL ANOMALIES

Down Syndrome

Down syndrome is one of the leading causes of mental retardation. Recent increases in its incidence may be due to an increasing proportion of births to older women who are at higher risk of giving birth to an infant with Down syndrome.

Spina Bifida

Based upon rates from the Birth Defects Monitoring Program at the Centers for Disease Control (CDC), from 1980 through 1987, an estimated 13,600 infants born in the U.S. had spina bifida without anencephaly. Approximately 3800 have died as a result of their defects.

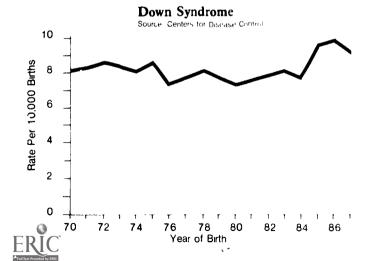
The estimated rate of infants born with spina bifida has decreased from 1980 (5.2 per 10,000 live births) through 1987 (4.3 per 10,000 live births). However, an increasing proportion of these infants survive into childhood each year.

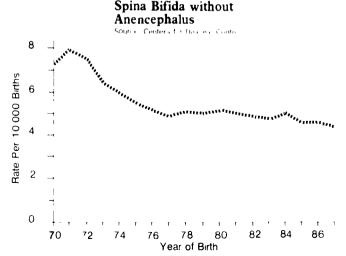
Approximately 100,000 infants are born each year in the United States with serious congenital anomalies.

In 1986 there were 8,244 infant deaths

related to congenital anomalies, accounting for 21% of all infant deaths.

1.2 million infants, children, and adults are hospitalized each year for treatment of congenital anomalies.





23

HEALTH STATUS—Infant

STATE SPECIFIC INFORMATION

INFANT MORTALITY, LOW BIRTHWEIGHT, AND EARLY PRENATAL CARE

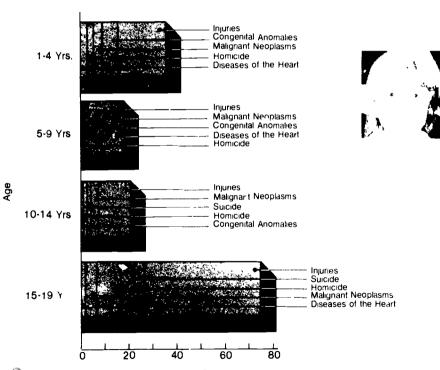
BY RACE: 1987

State	Infant Mortality			Low Birthweight		Early Prenatal Care		Ctata	Infant Mortality			Low Birthweight			Early Prenatal Care				
	All	White	Black	AII	White	Black	AII	White	Black	State	All	White	Black	AII	White		All		Black
Alabama	122	88	190	80	5 9	12.2	73 2	79 2	59 0	New									
Alaska	104	83	*85	48	4 5	9 4	77 2	80 6	716	Hampshire	78	78	*128	49	49	45	83 7	83 9	72 7
Arizona	9 5	89	157	6 4	63	118	71 6	737	66 3	New Jersey	94	7 3	18 1	70	5 4	13 0	81 3	84 8	66 9
Ar kansas	103	8.7	15.7	7 7	64	12 1	69.5	746	52 7	New Mexico	8 1	78	*199	7 1	7 1	12 1	58 4	60 1	51 5
Calirornia	90	8 7	160	60	5 2	12 4	75.4	75 9	69.0	New York	107	90	17 2	76	60	130	71 7	77.7	51 1
Colorado	98	96	16 4	79	7 5	14 2	77 6	78 4	67.7	North					• -	,			0,,
Connecticut	88	73	195	6 7	58	12.8	85 8	88 6	66 9	Carolina	119	94	18 2	79	60	124	77 7	83 9	63 5
D e lawa re	117	9 4	20 0	6 7	4 9	12 2	78 2	83 0	63 0	North Dakota	8 7	8 1	-	49	48	21	82 1	83 8	800
District of									000	Ohio	93	8 2	15 3	66	56	121	82 2	84 4	68 9
Columbia	193	*106	228	135	5 1	16 1	59 3	793	560	Oklahoma	96	9 5	140	67	^ ?	111	71 5	75 6	56 8
Florida	106	80	18 7	77	60	13	68 4	74 1	50.5	Oregon	104	10 5	*177	5 4		126	7 3 9	74 6	62 1
Ge orgia	127	103	175	8 2	62	12.2	73 5	80 2	61.1	Pennsylvania	104	83	22 3	6 9	5 ა	14 0	78 0	82 3	52 7
Hawaii	8 9	8 3	* 14 4	70	5 2	8 4	77 5	82 6	83 4	Rhode Island	8 4	8 1	*117	60	5 4	118	85 4	87 4	69 6
ldaho	10 4	104	-	56	5 6	79	76 1	76 4	760	South								•	000
Illinois	116	9 2	206	74	5 5	139	78 4	82 2	65.0	Carolina	127	9 7	178	86	6 1	128	67 3	76 5	530
Indiana	10 1	90	194	65	58	118	77 3	79 5	566	South									
lowa	9 1	88	185	5 1	49	106	85 7	86 2	74 6	Dakota	99	8 0	*79	5 2	50	63	74 1	7 3 5	62 2
Kansas	95	8 5	192	6 4	5.7	125	81 2	83 1	68 1	Tennessee	117	92	19 7	8 1	6 5	133	75 <i>2</i>	7 8 7	640
Kentucky	97	9.5	123	68	6 4	112	75 6	77 0	62 1	Texas	9 1	83	15 1	69	60	123	66 8	68 4	56 4
Louisiana	118	80	17.7	8 7	60	12 7	78 6	85 9	67 9	Utah	88	89	*9 1	5 7	5 6	106	82 O	630	64 4
Main e	83	8 2	179	5 4	53	7 1	83 1	833	68 0	Vermont	85	8 4	*33 3	69	5 3	33	7 8 9	79 O	65 4
Maryland	115	88	18 1	78	5.5	128	80 3	86 4	66 9	Virginia	102	8 2	170	5 7	5 5	115	80 1	843	68 1
Massachusetts	7 2	66	144	5.7	5 1	11.4	84 0	85.6	69.0	Washington	97	94	152	5 3	49	103	77 4	78 8	65 5
Michigan	10 7	8 4	214	74	5.5	14.3	80.4	82 9	69.7	West Virginia	98	9 5	*173	7 1	6 9	111	70 6	713	54 2
Minnesota	8 7	8 2	174	50	4 6	132	80 0	82 0	58 8	Wisconsin	86	78	165	5 4	47	125	828	85 5	633
Mississippi	13 7	99	182	90	63	12 0	76 0	84 9	65 9	Wyoming	92	90	*179	7 7	7 7	116	80 O	80 6	65 9
Missouri	10 2	89	175	70	5.8	12.8	80 0	823	67 9	United								_	
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0	96	9 2	179	69	60	127	73 7		57.2	*Rate based on le	ce th	20	4						

HEALTH STATUS—Child

Leading Causes of Death, 1986 Rate Per 100,000 Population

Source National Center for Health Statistics



CHILD MORTALITY

Injuries are the leading cause of death among all children.

Homicide and suicide are major contributors to the causes of death in adolescents 15 through 19 years of age.

In 1986, 32,492 children of ages 1 through 19 died.

The rates in this figure for injury homicide, and suicide were determined by using the following ICD-9 E Codes Inuries E800-£949

Homicides E960-E978

Suicides E350, E959

Deaths Per 100,000 Population

HEALTH STATUS-Child . *

CHILD HOSPITALIZATION

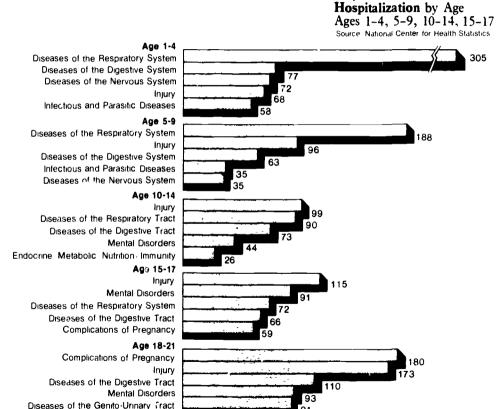
Causes

In 1987, diseases of the respiratory system were the major cause for hospitalization of children 1 through 9 years of age. accounting for 35% of all discharges.

Hospital discharge rates decline with age until the age of 14, when they begin to increase.

While injuries are the leading cause of death for children greater than 1 year of age, this category accounted for only 13% of the hospital discharges in 1987.

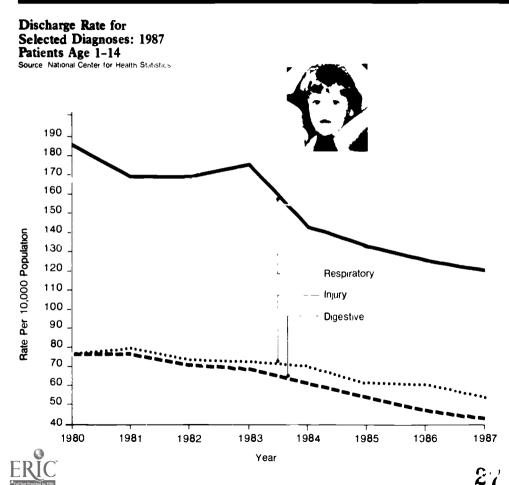






Number of Hospitalization in 1000 s

Major Causes of



Trend

Between 1980 and 1987, there was a 35% decline in the hospital discharge rate for disease of the respiratory system for children aged 1 through 14 years. Since 1980, there has been a 62% decrease in overall hospital discharge rates for children aged 1 through 14 years.

Three diagnostic categories—diseases of the digestive system, diseases of the respiratory system, and injury—accounted for 54% of the discharges of children aged 1 through 14 years in 1987

HEALTH STATUS—Child

ORAL HEALTH

The prevalence of dental caries increases with age. From 1971 to 1987 there was a decline in the prevalence of dental caries for children aged 5 through 17 years of age.

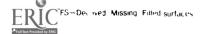
Studies show that one half of the school children in the U.S. have no decay in their permanent teeth.

In 1987, children 5 through 9 years of age had an average of 4 baby tooth surfaces affected by decay.

The incidence of dental caries is closely associated with income and education. The average number of decayed teeth increases as household income and education decreases.

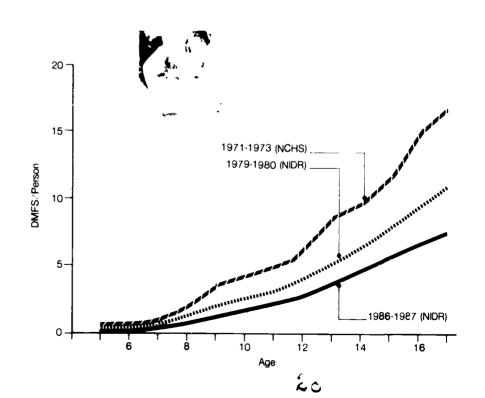
In a number of studies, the prevalence of Baby Bottle Tooth Decay (BBTD) has been reported to be 5% in children aged through 4 years. However, over half (53%) of children from low income families and Native American children have BBTD.

Decreases in the incidence of dental decay have been largely attributed to the presence of fluoride in community water supplies, toothpaste and other forms.



Age-Specific Prevalence of Dental Caries (DMFS) in 3 National Surveys

Source: National Institute of Dental --Research



Child Injuries by place of occurrence 1987

Source National Center for Health Statistics



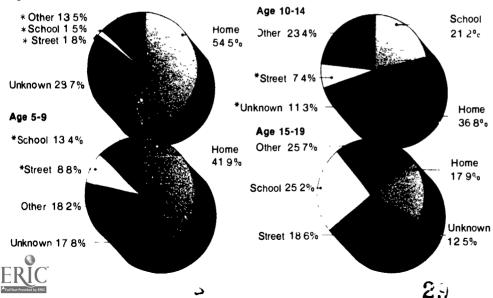
INJURIES

Injuries occurring at school account for 21.2% of all injuries among children aged 10 through 14 years.

The most common single site of injuries to children under age 15 is the home.

* Relative Standard Error (RSE) of numerator is more than 30%

Age 0-4





HEALTH STATUS—Child

CHILD ABUSE AND NEGLECT

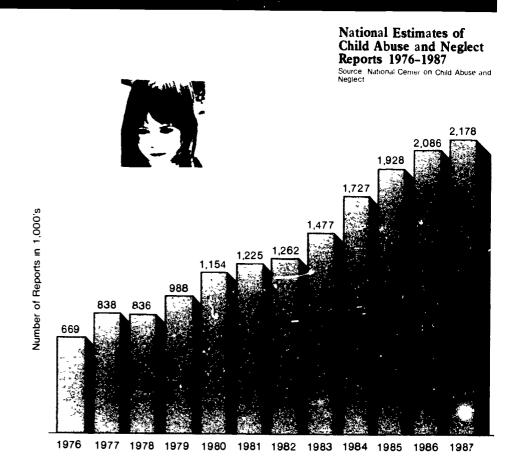
There were almost 2.2 million reports of abused or neglected children nationwide in 1987. This represents an increase of 225% since 1976.

An estimated 30% of individuals who were physically or sexually abused or extremely neglected as children become abusive parents themselves.

The increasing number of reports of child abuse or neglect between 1976 a..d 1987 may reflect improved recognition of the problem, improved statewide reporting systems, and/or a larger number of affected children.

Note: A precise definition for child abuse cannot be made be cause the definition, and policy varies from state to state.



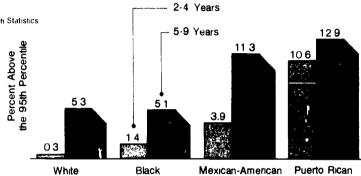




Year

Males Weight for Height (HANES II, HISPANIC HANES)

Source National Center for Health Statistics



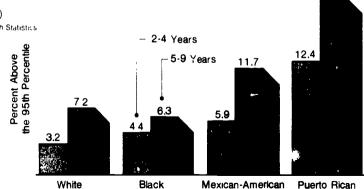
CHILDHOOD OBESITY

Although the prevalence of obesity in white and black children is about 5%, the prevalence in most Hispanic subgroups is over twice this.

There are more obese females than obese males for these age and racial/ethnic groups.

Females Weight for Height (HANES II, HISPANIC HANES)

Source National Center for Health Statistics







19.3

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HEALTH STATUS-Adolescent

SELECTED CAUSES OF DEATH AMONG 10-19 YEAR OLDS

By Race

The homicide rate for blacks aged 10 through 19 years is significantly greater than for whites.

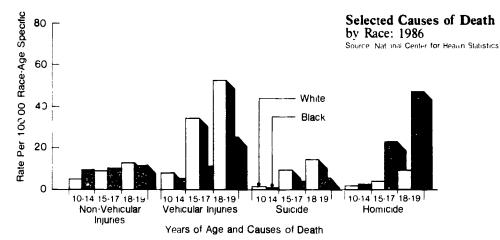
By Sex

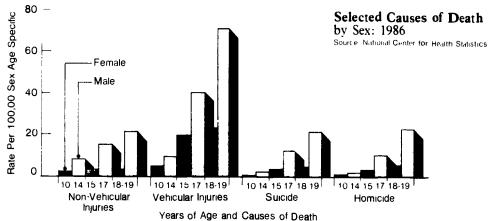
Many more males than females died from homicide, suicide, motor vehicle related injuries and other traumatic injuries.

In 1986 there were 20,930 deaths of adolescents aged 10 through 19 years.

Fires and drowning are the two leading causes of nonmotor vehicle injury deaths in this age group.

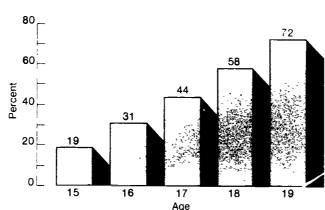




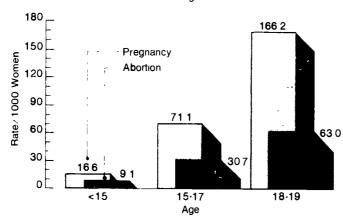




Percentage of All Females who had ever had Intercourse by Age U.S. 1982 Source Alan Guttmacher Institute



Rate of Pregnancy and Abortion by Age: 1985 Source Alan Guttmacher Institute



TEENAGE SEXUALITY

Sexual Activity

In 1982, nearly 20% of 15 year-old females had intercourse; increasing by more than 10 percentage points each year to 72% of all 19 year olds.

Tean Pregnancy

In 1985, more than half of all pregnancies to teenagers under 15 years were reported to end in abortion. The percent of pregnancies ending in abortion decreased with age to 38% in those women 18-19 years.

In 1985, 1,031,000 teenagers became pregnant; of these, 31,000 were younger than 15. The outcomes included 477,720 live births and 416,170 induced abortions (137,120 spontaneous abortions)

Women younger than 20 accounted for 26% of all abortions and 13% of all births.

Each year, of teenagers aged 15 through 19, one American in 10 becomes pregnant, as compared with fewer than one teen in 20 in Canada, England or France.



HEALTH STATUS—Adolescent

Childbearing

In 1985, the live birth rate/1000 was 5.5 for teenagers less than 15 years, 31.1 for those 15 through 17; 80.8 for those 18 through 19 years.

In 1985, there were 62,669 live births among black females under 18 years of age which represented 10.4% of all births to black women. There were 110,143 births to white females under 18 years of age which represented 3.7% of all births among white women.

In the United States, approximately 55 million women are of childbearing age (15-44 years of age).

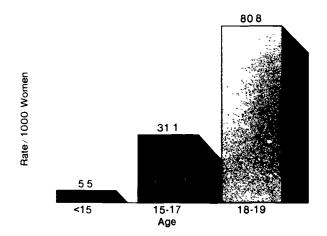




Live Births by Age of Mother U.S. 1985

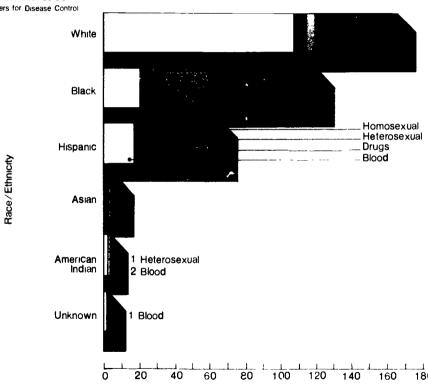
Source National Center for Health Statistics





Adolescent AIDS by Race and Exposure Category Ages 13-19 for 1988

Source Centers for Disease Control



ADOLESCENT AND YOUNG ADULTS/AIDS

Adolescent

As of April 1989, 372 cases of AIDS were reported in adolescents aged 13 through 19 years.

Whereas the majority of cases of AIDS occurring in whites are related to blood product exposure, the majority in blacks and Hispanics are a result of sexual activity and drug use.



HEALTH STATUS-Adolescent

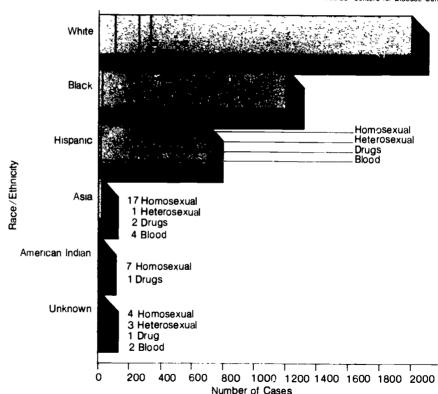
Young Adult

As of April 1989, 4137 cases of AIDS were reported in young adults aged 20 through 24 years.

Across all racial/ethnic groups, sexual activity was the major exposure category although drug related exposure was a significant contributor to AIDS in the hispanic population.

Due to the long latency period (up to 9 years) the majority of cases seen in this age group were the result of exposure occurring during adolescence.

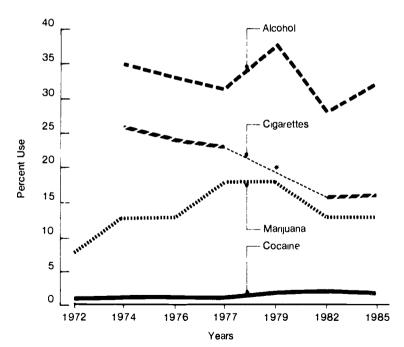
Young Adult AIDS by Race and Exposure Category Ages 20-24 for 1988 Source Centers for Disease Control





Use of Selected Substances in the Past Month: 1972-1985 Ages 12-17 Years

Source National Institute of Drug Abuse



^{*} No data for 1979 available



SUBSTANCE ABUSE

Alcohol continues to be the most widely abused substance among teenagers.

Cigarette smoking has declined steadily among all persons aged 12-17 years over the past decade.

Although the use of marijuana peaked in the late 1970's with 17% then indicating use in the past month, there has been an apparent decline in the 1980's.

While the National Household Survey reported 1.5% of 12-17 year olds had used cocaine during the past month, the National Adolescent School Survey reported that more than 3% of the students report using cocaine during the past month.



Important factors which intluence health outcome for mothers and children, especially for those at high risk, is availability of and access to quality health care. It is estimated that thirty-eight million Americans do not have health care coverage. There is no universal coverage for women and children in the United States. Although private physicians and hospitals provide "free" care, many Americans are still unable to receive the preventive services they need. Many wait for life-threatening events to occur before they seek care. The finest and most effective intervention programs are of little value if they are not available.

The data presented in this section indicate the availability and utilization of health care by source, type and place of care.

Immunization Levels * 1-4 years of age Source Centers for Disease Control

	1970	1976	1983	1984	1985	
Rebelle	37.2	61.7	64.0	60.9	58.9	
Measles	57.2	65.9	64.9	62.8	60.8	
	_	48.3	59.5	58.7	58.9	
DPT (3 + doses)	76.1	71.4	65.7	6 5. 7	64 .9	
Patte (3 + doses)	65.9	61.6	57.0	54.8	55.3	

IMMUNIZATION OF CHILDREN

In 1983, the U.S. reached its highest level of childhood immunizations against all five of the common preventable childhood diseases. However, more than one third of children aged 1-4 years were not appropriately immunized.

In 1987, nearly 98% of children entering kindergarten/1st grade were fully immunized against all five of the common preventable childhood diseases.

A reported increase in the incidence of measles and mumps suggest that the population of children fully immunized may be declining.

Note: Based on information from the U.S. Immunication survey for respondents an avering questions after referring to an immunication record.

FRIC'm information from the US. Immunization Survey for respondents answering questions after referring to an immunization record

PRENATAL CARE

Early Prenatal Care

Overall, 76% of all mothers began early prenatal care in the first trimester of pregnancy, the same proportion that has been observed annually since 1979.

The racial disparity in the timely receipt of prenatal care continues to be substantial. In 1986, 79% of white mothers as compared to 62% of black mothers received early prenatal care.

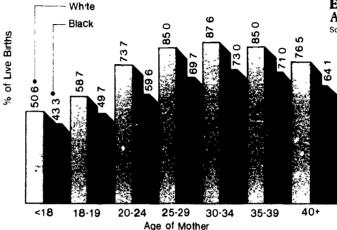
Six percent of infants were born to mothers whose first visit for prenatal care was late or to those who had received no prenatal care.

Prenatal Care

Black women of all ages are more likely not to receive prenatal care than white women.

Women under 20 years of age are less likely than older women to receive early prenatal care.

Risk factors for not receiving prenatal care include: women who are under 18 years old, unmarried, low educational attainment, and being of minority status.

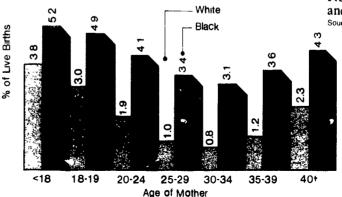






No Prenatal Care by Age and Race: 1986

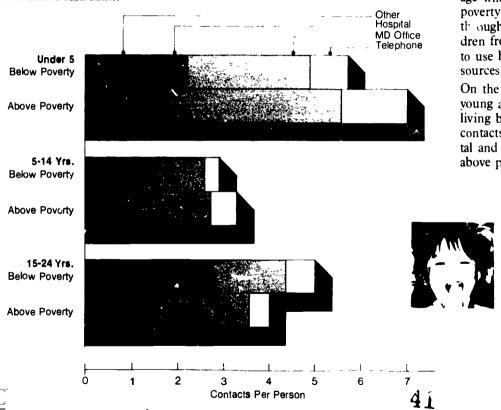
Source National Center for Health Statistics



Place of Physician Contact by Age and Poverty

Status: 1987

Source National Center for Health Statistics



PLACE OF PHYSICIAN CONTACT

In 1987, children less than 15 years of age whose family income was above poverty used more services offered th ough physicians' offices whereas children from poor families were more likely to use hospital services and other sources.

On the other hand, adolescents and young adults aged 15 through 24 years living below poverty had more physician contacts, and had a greater use of hospital and other sources than those living above poverty.

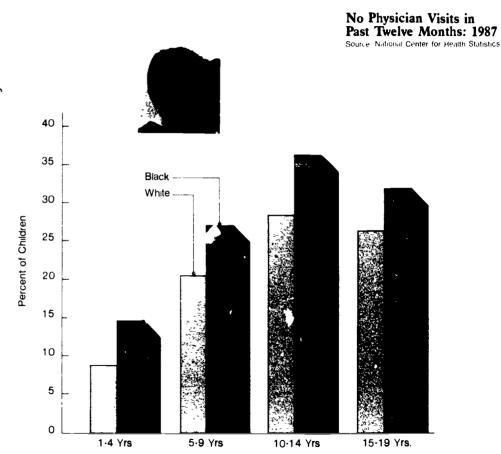
PHYSICIAN VISITS

A lower percentage of black children of all ages were seen by physicians in the past year as compared to white children.

Of those children from 1 through 4 years of age, nearly 10% of white and 15% of black children had not been seen by a physician in the previous year.

In 1987, 15 million children, about 22% of all under 20 years of age, had not been seen by a physician in the previous year.

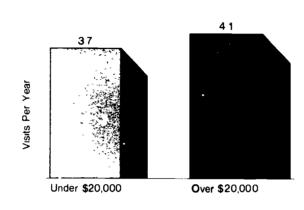




Ages



Physician Utilization by Income Status 1987



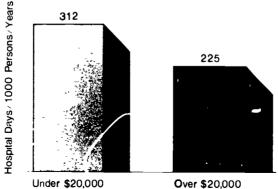
PHYSICIAN/HOSPITAL UTILIZATION BY INCOME STATUS

Children whose families earn less than \$20,000 per year had fewer physician contacts than those who earn more.

Children from families earning less than \$20,000 had nearly 40% more hospital days.

These observations may suggest that children from poorer families do not receive health care until later in the course of their illness and, as a result, require more hospitalization.

Hospital Utilization by Income Status 1987 Source National Center for Health Statistics







HEALTH CARE FINANCING

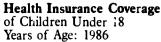
Insurance Coverage

The 1986 Current Population Survey found that 19% or 10.6 million children under 18 had no insurance coverage. Over 16% of children were publicly insured primarily through Medicaid and 67.5% were privately insured primarily through employer sponsored coverage.

Over half of all uninsured children resided in families whose head was employed full-time and fuli-year. Another one-third of children without insurance protection lived in families whose head was a part-time or part-year worker. Only 12% of all uninsured children were from families with unemployed parents.

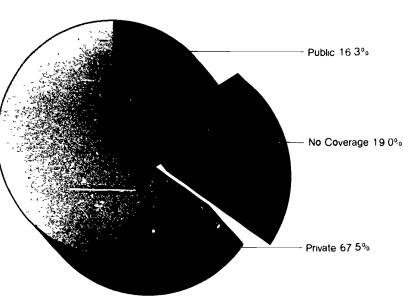
Thirty-three percent of all uninsured children had family incomes below poverty; 58% had incomes between 100-200% of poverty; and 11% had incomes above 200% of poverty.

Note Percentages do not total 100% due to some children being covered by public and private sources.



Source Chollet 1988

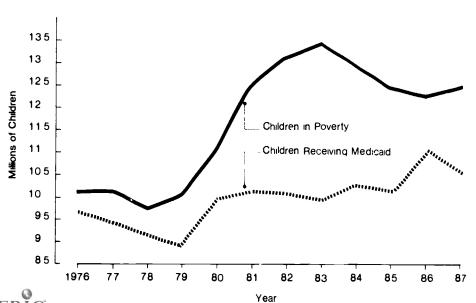






Children in Poverty and Children Receiving Medicaid, 1976-1987 (In Millions)

Source Health Care Financing Administrition and U.S. Bureau of the Census



Medicaid Coverage

Medicaid covers only about half of all poor children. Since 1982, the percentage of poor children insured by Medicaid has steadily increased although the proportion is still much lower than it was in the 1970's.

To qualify for Medicaid under the Aid to Families with Dependent Children (AFDC) category, the average annual income threshold for a family of three in 1987 was \$4,638 or 49% of the federal poverty level, according to HCFA's Office of the Actuary.

In 1987, children under 21 represented 52% of all Medicaid recipients and only 19% of expenditures. Adults represented 47% of all recipients and 81% of expenditures. The average payment per child recipient was \$742 compared to \$3,362 for adults.

Numbers in 1986 reflect reporting systems improvements of aggregated data.



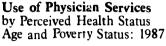
USE OF PHYSICIAN SERVICES BY PERCEIVED HEALTH STATUS

In almost all age and health categories, those children living below poverty were less likely to see a physician than those living above.

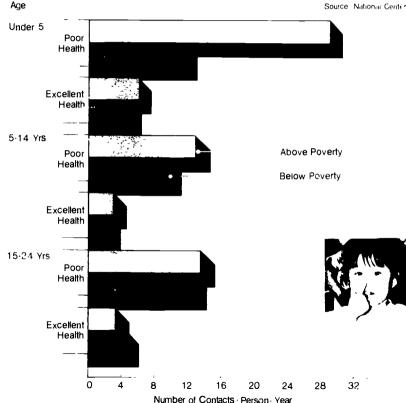
For those children under 5 perceived to be in poor health, those living above poverty were 2½ times more likely to have seen a physician than those below.

Regardless of poverty status, children in perceived poor/fair health use more physician services than those who are perceived to be in excellent or very good health state.

Note The perceived health status as determined by the surresponder most likely to be a parent



Source National Center for Health Statistics





Physician Utilization: With and Without Limitation in their Activities due to Chronic

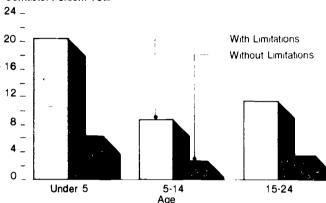
Conditions: 1987

Contacts / Person / Year

Hospital Days/1000 Persons/Year

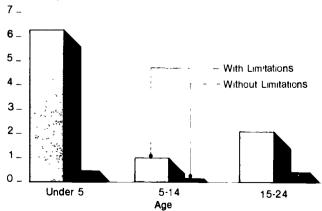
(Thousands)

Source National Center for Health Statistics 16



Hospital Utilization: With and Without Limitation in their Activities due to Chronic Conditions: 1987

Source: National Center for Health Statistics



PHYSICIAN/HOSPITAL UTILIZATION IN CHILDREN WITH CHRONIC CONDITIONS

Physician Utilization

Five percent of all U.S. children are limited in their activities; however, they account for 11% of all physician contacts among children.

Children limited in their activities have $2\frac{1}{2}$ times as many physician contacts as other children.

In 1987, children under 5 years of age with limited activities due to chronic diseases had greater than 3 times as many physician contacts as other children.

Hospital Utilization

Children ages 1 through 19 limited in their activities spend over 11 times as many days in the hospital as other children.

Although accounting for only 5% of all U.S. children, these children account for 40% of all hospital days among children aged 1 through 19 years.



LIMITATION OF ACTIVITY DUE TO CHRONIC DISEASES

Male/Female

In children from 1 to 19 years of age, the percentage of males with limitation of activity due to chronic illness is consistently higher than females.

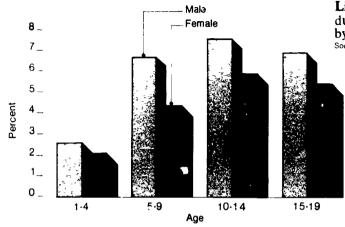
Income

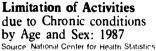
Children from families where annual income falls below \$20,000 were consistently more limited in activity due to chronic conditions.

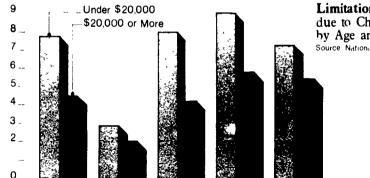
For children aged 5-9 years, those whose family income exceed \$20,000 were nearly half as likely as those with a family income below \$20,000 to have limitation of activity due to chronic conditions.

The proportion of children with limitation of activity has doubled since 1960. A number of factors may have contributed to this trend; these include improved data collection, greater awareness of chronic conditions, greater sensitivity to impairment, and improvements in lifesaving medical technology.

In 1987, more than 3 million (5.1%) of all children 1 through 19 years of age were immed in their usual activities because of cilinesses and impairments.







5.9

Age

1.19

1-4

10.14

15.19

Limitation of Activities due to Chronic Conditions by Age and Income: 1987

Source National Center for Health Statistics

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Health Resources and Services Administration
Bureau of Maternal and Child Health and Resources Development
Office of Maternal and Child Health
HRS-M-CH8915 October 1989